

"ADJUSTABLE MEASURING AND POINTING TOOL"

5 The present invention is about an adjustable measuring and pointing tool to be used for measurements in building and metallic carpentry.

10 In carpentry works, in particular but not necessarily in the building field, exact measurements of building materials should often been done, before the installation of the same building materials. Before the realization of the present invention, the measurements for the lumber installation, for instance to build roof coverings in building field, took place directly cutting a wooden template in the yard. With such a system, a measuring tool primarily little precise and also little practical was obtained, as it was necessary to realize a new template, then thrown away when finished its use, whenever a new construction was started, or for each element having a different measure.

15 Object of the present invention is thus to provide for a carpentry measuring tool which solves the aforesaid problems, by a practical, precise, light and durable adjustable measuring and pointing tool.

20 The adjustable measuring and pointing tool according to the present invention, otherwise known as "list" or "step", is preferably made of aluminium alloy, and comprises one or more adjustable cursors, able to slide along the entire length of said adjustable measuring and pointing tool, and to be fixed to said adjustable measuring and pointing tool by screw clamps, to obtain the desired measures, for instance of fir fillets to build roof coverings, or to make manual pointing of carpentry metallic bars, for welding operations.

25 Characteristics and advantages of the invention will be better described in greater detail hereinafter, also with the aid of the annexed drawings, which show a not limiting embodiment of the invention. Obviously, the same reference numbers in the different figures show the same or equivalent components.

30 Figure 1 shows an adjustable measuring and pointing tool according to the invention, in perspective view from above;

Figure 2 shows an adjustable measuring and pointing tool according to the invention, in perspective view from below;

Figure 3 shows an embodiment example of a cursor to be used in an adjustable measuring and pointing tool according to the invention; and

Figure 4 shows an enlarged detail of an adjustable measuring and pointing tool according to the invention.

Referring to the figures of the annexed drawings, the adjustable measuring and pointing tool according to the present invention comprises a bar (1) preferably but not exclusively made of aluminium alloy, which has an upper plane (2) and a lower part (3), preferably provided with a reinforcement core (5) with rhomboidal structure, of the same material of said bar (1), to allow said adjustable measuring and pointing tool to be light and resistant. On the upper plane (2) of said bar (1) a graduated plane (4) is realized, which allows the material measurement. Said bar (1) of said adjustable measuring and pointing tool can also be provided with one or more support feet (6).

Advantageously, the adjustable measuring and pointing tool according to the present invention comprises one or more cursors (7), as shown in Figure 3, preferably made of aluminium alloy, able to slide along the entire graduated plane (4) of said bar (1) to obtain the desired measures. Said one or more cursors (7) are provided with an upper cavity (9), properly shaped to allow the insertion, on the manufacturing level, and the subsequent sliding of said one or more cursors (7) on said graduated plane (4), and with a lower cavity (10), preferably made to obtain a greater overall lightness of said adjustable measuring and pointing tool. Moreover, for said one or more cursors (7), a spring device, not shown in the drawings, is provided, which prevents said one or more cursors (7) to be accidentally released from said bar (1) during use of said adjustable measuring and pointing tool. Said one or more cursors (7) are furthermore provided with at least one screw (8) with adjustment ring nut, to allow their locking on said bar (1) of said adjustable measuring and pointing tool once established the desired measures.

Using an adjustable measuring and pointing tool according to the present invention it is possible to measure several carpentry or building components, either made of wood, of metal or of other material, simply moving the cursor (7) on the graduated plane (4) or, in case more accurate measures are required, or partial distances need to be calculated, it is possible to use more cursors (7), equally movable along the graduated plane (4) and independently fixable on it through the screw (8). The adjustable measuring and pointing tool according to the present invention is particularly useful in operations of welding more metallic components to each other, such as a window case components, by using more cursors (7) to

perform several measurements at the same time and to make quicker and more accurate welding operations.

5 The adjustable measuring and pointing tool according to the present invention is therefore versatile and easy to handle, precise and light, thanks to the use of aluminium alloys, or other light metallic alloys, for its realization, practical and easily portable, thanks to the possibility to use a ring, not shown in the drawings, to hang up said adjustable measuring and pointing tool for instance to the users' belt.

10 It is therefore evident that alterations, adjustments and modifications may be resorted to the previously described embodiment, given as an illustrative example only, without falling outside scope of protection of the invention, as it is also defined in the appended claims.